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Date: 1/20/99 2:16 PM
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Priority: Normal
Receipt requested
Subject: 14 CFR Part 36 [Docket No. FAA-1998-4731; Notice No. 98-16]

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Please find below two comments from the French DGAC(Direction Generale de l'Aviation Civile)-SFACT(Airmen and aircraft rulemaking division) on the following NPRM on Appendix G of part 36 :

14 CFR Part 36
[Docket No. FAA-1998-4731 ; Notice No. 98-16]
RIN 2120-AG65
"Noise Certification Standards for Propeller-Driven Small Airplanes"

1- Section G36.107 (Noise Measurement Procedures), ? (a) :

COMMENT :
line # 4 : replace "0.7 mm" by "7 mm",

so that the sentence reads : "[...] such that the microphone diaphragm is 7 mm above and parallel to a white-painted metal circular plate."

REASON FOR COMMENT :
The purpose of this NPRM is to harmonize with ICAO Annex 16 and JAR 36. "7 mm" is the figure used in ? 4.4 of Appendix 6 of Annex 16, vol. 1, as well as in ? 4.4 of Appendix B of JAR 36.

2- Section G36.201 (Corrections to Test Results), ? (d)(l) :

COMMENT :
line # 5 : In the equation, replace "0.7" by "0.6",

so that the equation reads :
"Delta(M)=(Ht alpha - 0.6 Hr)/1000"

REASON FOR COMMENT :
The purpose of this NPRM is to harmonize with ICAO Annex 16, Chapter 10 and JAR 36.
The equation used in both ? 5.2.1 of Appendix 6 of Annex 16 and

5.2.1 of Appendix B of JAR 36 is :
"Delta(M)=0.01(Ht alpha - 0.2 Hr)",
where Ht and Hr are in meters
and alpha is in Db/100m.

If in your equation Ht and Hr are in feet
and alpha is in Db/1000ft (as specified in SAE ARP 866A),
and if you use the standard conversion of 1 ft = 0.3048006 m,

the equation becomes :
"Delta(M)=0.01(0.1 Ht alpha - 0.2*0.3048006 Hr)"
that is to say :

"Delta(M)=0.01(0.1 Ht alpha - 0.0609601 Hr)"
that is to say :
"Delta(M)=(Ht alpha - 0.6 Hr)/1000"
where Ht and Hr are in feet
and alpha is in Db/1000ft,

which has the other advantage of being closer to the figures contained in the relevant tables in SAE ARP 866A...